

Spencer Spence



CLAS-5
I N C O R P O R A T E D



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1480 66TH STREET, EMERYVILLE, CA. 94608

CATALOGUE 5



here is, in any catalog, a spot that is usually devoted to a bit of grandstanding by way of an introduction. This is where we get a chance to tell you about ourselves, about the fine products we make, and about your good fortune for having chanced upon us.

You may be looking at a CLASS-5 product for the first time and, picking up our catalog, you expect a bit of grandiloquence on what has made us great, and on what has kept us from selling out to the "biggies"; or perhaps a brief reflection on our guiding philosophy and future goals, as well as the standard ceremonious expression of deep concern for the deteriorating state of the wilderness. After all, that's what a catalog introduction is supposed to do, isn't it? Or, you may have opened this brochure because you already own a piece of CLASS-5 equipment and, having decided to invest in another one, you wish to see what's new at CLASS-5 this year; but, at the same time, you are not really too terribly concerned with our theories of the universe and our views of mankind.

Actually, our intention had been to talk about simplicity of design and its virtues. About the beauty and simplicity of our gear, and about the fact that something simple can be quite functional. And, after all, functional gear frees you to do other things, like enjoying the wilderness—which is what you came to do in the first place. It occurred to us, however, that to limit the scope of our equipment, by relating its use solely to a wilderness environment, is to somehow overlook its intrinsic values. Indeed, one of the attributes of our gear is simplicity of design, but surely its essence remains above all a multiplicity of uses. A parka that will keep you warm and dry in a fierce storm does not know how to differentiate locations—not yet, anyway. It will keep you warm and dry whether you're holed up in a bivouac on some crag, waiting for the bus downtown, or cheering your favorite team in the ballpark.

You see, there is really nothing narrow or magic about the word "mountaineering" as applied to the gear in this catalog. If the term signifies anything, it is a high standard of quality that is hard to find in this age of mass production. CLASS-5 gear, which is made to withstand the rigors of the granite world, will certainly hold its own in your everyday encounters with asphalt, steel, and concrete. Mountaineering gear is made to be used hard and to be a dependable companion for many years.

That's why you'll find a lifetime guarantee against defects in materials and workmanship on every one of our products. CLASS-5 can extend this kind of guarantee with confidence, for we invest extra care and attention in the design of every piece of our equipment, right

down to the smallest detail. The kind of care which can make the difference between early retirement or long lasting service of your gear.

The finest equipment for mountaineering! That's what we began making eight years ago, and that's what we still make today. Along the way we've learned a great many things about what is important in a piece of equipment. We've learned to discern between the purely cosmetic frills and the truly functional essentials. And, recognizing that the gear we make does not spend all its time in the mountains, we've developed designs that are both useful and aesthetically pleasing. Designs that are functional pieces of outdoor gear you won't have to hide when you're back in town. CLASS-5 makes some of the finest gear available. We enjoy making it, and we're confident you'll enjoy using it wherever you are and whatever you do.



CLOTHING

All of CLASS-5's products represent a great deal of thought concerning materials, construction methods, and, of course, design. Using simplicity of design as our guiding light, we have attempted to combine the best cloth, the best insulation materials and the best hardware we can buy into thoroughly functional, attractive, and durable pieces of clothing. Indeed, wherever possible, we have opted in favor of simple solutions to design problems. Elaborate solutions tend to cost more, and all too often they have functions whose real value is curiously limited to the publicity to be derived from them. Our construction methods are carefully developed around each product to maintain time-honored attention to detail and quality of workmanship. Each garment is subjected to a final, rigorous inspection. Our quality control standards are very high to assure our customers a purchase that starts out "right" and will remain that way.

All clothing, to one degree or another, is intended to help the user contend with the prevailing weather. Any heat produced by the human body is quickly lost to a colder environment, chiefly through radiation and the convective powers of the wind. Clothing, then, redefines the immediate environment of the body. It traps and maintains a thin layer of air which is warmed by the body to its equilibrium temperature. Now, the heat output of the human body is as much subject to variations as the weather conditions to be encountered. Hence, there are many different pieces of clothing to satisfy any given combination of these conditions. (See page 49 for a graph of insulation requirements, based on US Army tests.) The principal design elements of all outdoor garments,

Breathability is the moisture transmission rate of a fabric measured in grams of water that one square meter of the material can diffuse in a 24 hour period. The greater the number of grams of water, the greater the breathability of the fabric.

Cargo/Handwarmer Pocket is a two compartment pocket which can be entered from the top for storing various items, or from the side for warming your hands.

Draft Flap is an insulated, snap closed flap which covers the zipper to provide an added measure of insulation for the wearer.

however, remain the same: to protect against wind and cold, or moisture, and to accomplish this without sacrificing the mobility of the wearer. Let's take a brief look at the diverse properties of some of the materials used by CLASS-5 in the manufacture of clothing.

Goose Down is extremely light in weight, yet ounce for ounce warmer than any man-made substitute. Goose down compresses into smaller volumes than any synthetic insulator, and it has a resilience, an ability to regain its original loft after having been stuffed again and again, which outlives all other materials. The virtues of down are universally recognized. For years a necessity in wilderness travel, down now enjoys a widespread following. People everywhere delight in its warm luxury.

Goose down is also a very breathable insulation. It allows the water vapor formed by the body's perspiration to pass through quickly. This important feature maintains the comfort of the user as well as the integrity of the down's insulation qualities. For down is a temperamental material, its chief problem being that it doesn't take to water very well. Sustained exposure to moisture, be it rain or salt water spray, reduces the effectiveness of down and will eventually harm it permanently. A goose will preen itself constantly to distribute a glandular oil throughout its feathers, as a kind of waterproofing, without which it would sink. Naturally, the down in a garment or sleeping bag no longer receives that kind of attention. It is important, therefore, to protect it from abuse.

To abuse a down parka is to walk around in a good rain without some means of keeping the parka dry. The down will absorb the water and the once warm parka will become soggy and limp, offering

Goose Down must meet our minimum standard of 550 cubic inches of fill per ounce to be included in our products. This high volume to weight ratio offers excellent insulation qualities. This down exceeds Federal and State specifications for specie and extraneous matter. (For further information about goose down please refer to the introduction on clothing.)

Core-Tex is the trademark for a thin film of polytetrafluoroethylene (PTFE) which gives outerwear fabrics to which it is laminated the desirable characteristic of being both waterproof and breathable. (For additional information on Core-Tex please refer to the introduction on clothing.)

Handwarmer Pocket is a single compartment pocket, accessible from the side, offering protection for your hands.

no insulation whatsoever. Dried properly, the parka will regain its loft, though, to be sure, the useful life of the goose down will permit but a finite number of such drenchings. Similarly, boating in a down filled parka presents a paradox. The waterproof foul weather gear, necessary to protect the garment against spray, restricts the down's ability to breathe and carry away perspiration. The result is the absorption of moisture and the loss of insulation. Clearly, down is best suited to cold and dry climates. Unless, of course, it is used in conjunction with Gore-Tex fabric or clothing whose remarkable features we shall now look at.

Gore-Tex: Ideally, outdoor clothing should be both waterproof and breathable. Until recently, however, a fabric could possess only one of these properties, never both. Standard foul weather gear, made from coated nylon, forms an impermeable barrier not only against the rain from the outside, but unfortunately also against the body's perspiration from the inside. During strenuous activities, especially hiking and climbing, the amount of body moisture trapped by such raingear can completely negate the intended protective function. The development of Gore-Tex fabrics, which combine both waterproofness and breathability, has enabled us for the first time to design effective foul weather gear for active outdoor use.

Gore-Tex is a thin film of Polytetrafluoroethylene (PTFE), the same resin which produces Teflon. Notwithstanding its difficult name, the mechanism of PTFE is really quite simple. The film has an incredible number of pores, nine billion per square inch, which form a network of microscopic spaces that act as a semi-permeable membrane. Each pore is so small that a single drop of water is about 20,000 times as big. Hence, water cannot

Poplin is a durable, wind and water resistant blend of cotton and polyester. The two fibers are blended in each individual yarn—an intimate blend—instead of in the weave. Where incorporated into down filled parkas the poplin has been thoroughly downproofed. This fabric has the pleasant feel of a natural fiber and the durability of a synthetic.

Raglan Cut eliminates shoulder top seams and allows free movement. The raglan shoulder consists of a sleeve beginning at the neck with seams running under the arms.

Snap/Elastic Cuff is made by the insertion of an elastic band in the cuff so that it is slightly stretched around the wrist when the snaps on the exterior of the cuff are joined. There are two snap positions on a cuff with this feature.

Snap Fasteners: ours are solid brass with an ebonal coating to prevent oxidation. We use snaps which pierce the cloth instead of cutting a hole in it. This results in a more secure set and no loss of fabric strength.

permeate the PTFE membrane; it is waterproof. Conversely, however, a single molecule of water vapor, like the kind produced by body perspiration, is several hundred times smaller than one of these pores and, driven by the body's heat, will readily diffuse through this membrane. Incorporated into the fabric of a garment, PTFE will not allow water to penetrate the exterior, yet it will permit water vapor—perspiration—to exit through the garment shell.

The PTFE film itself is too thin (about .001") and fragile to withstand the rigors of most outdoor activities. To give it strength it is laminated by a special process to one side of a primary fabric, such as our 2.2 oz. taffeta. In single layer shell garments this laminate is covered on the inside with a fine mesh of nylon tricot for additional protection.

Since its introduction three years ago, Gore-Tex laminated fabric has simply redefined some of the basic design concepts of outdoor clothing. Its combined properties of waterproofness and breathability means that any wind-breaker becomes at once a thoroughly efficient rain garment. In fact, the breathability of Gore-Tex allows its use in strenuous activities without the risk of soaking the underlying layers of clothing with perspiration. This material adds an enormous degree of flexibility and safety to any garment into which it is incorporated.

Finally, a word of advice. To insure complete waterproofness in a Gore-Tex laminate garment it is necessary to seal its seams. The small stitch holes and the thread can become nasty little funnels for any rain water. A little dab of readily available seam sealer will prevent any unpleasant surprises. Complete care instructions are included

Shell: is an outer garment, or the outer layer of a multi-layer garment meant to shield the wearer from wind and rain.

Taffeta: is a tightly woven nylon cloth with a dense, uniform appearance—ours has 252 threads per inch—that needs no further downproofing. The taffeta we use weighs 2.2 oz. per square yard, provides excellent durability, and a low overall garment weight.

Taslan: is a durable, texturized nylon cloth with an oxford weave that is used in our Gore-Tex laminate clothing.

Thread: all our garments are sewn with 40/20 Coats and Clark Dacron thread with a cotton wrap. The Dacron core provides great strength while the cotton wrap prevents seam abrasion. CLASS-5 clothing is sewn with ten stitches to the inch.

Three Position Snap Cuff: uses a triangular gusset set into the end of the sleeve, and a cloth tab with a female snap to join any of the three male snaps set on the opposite side; to provide three cuff positions.

Wool: For many thousands of years wool has been keeping people warm. Its unique combination of properties makes wool a practical and much sought fabric for the outdoors. It is an excellent insulator noted for its resilience, durability and comfort, as well as its lasting aesthetic appeal.

The various characteristics of wool are a reflection of its microscopic and molecular structure. The extremely small diameter of a single strand of wool fiber creates an extensive surface area in a given amount of wool. This large surface area, along with the natural crimp of the fibers, accounts for wool's outstanding insulation qualities. On the sheep, wool is coated with a greasy protective secretion. Most of this is removed during the initial stages of wool processing. The little bit that remains in the finished fabric, however, is sufficient to give wool a measure of water repellency not found in other natural fibers. Add to this wool's ability to absorb moisture while continuing to insulate, even when fully saturated, and you end up with the ideal fabric for cool and moist climates. Wool is a surprisingly durable and forgiving fiber, as well. A natural elasticity allows it to regain its original shape after having been stretched or accidentally creased.

Not all wool is the same, however. The wool used in our shirts and parka linings is 100% virgin wool, and it is specially woven to our exacting specifications at a small Oregon mill. Only virgin fiber can give you the natural resilience and durability that make wool fabric so attractive and practical. And only virgin wool can meet our uncompromising standards of quality.

Waterproofness: is measured in pounds per square inch of water pressure required to permeate a given material. Fabric that withstands 25 PSI is considered waterproof.

Wool: only 100% virgin wool is used in CLASS-5 products. You won't find any blends. This wool is woven into different weight cloth according to our design and specifications. It is the finest quality available and an excellent choice for wet climate usage.

Waterproofness/Breathability Comparison of Gore-Tex and other fabrics

	PSI	gm/m ² /24 hrs.
Gore-Tex	65	4800
Ventile	4	4900
60/40	0.5	5200
K-Kote Nylon	40	500
Bukflex Fabric	110	93

FORTY ROD



ur incredible 18 oz., 100% virgin wool, in a subtle shade of camel, or grey. Classic straight cut bottom and a handsome, full front and rear shoulder yoke of supple leather. Placketed button front, button cuffs, double stitched seams, and two patch pockets.



Colors: Camel, Grey
Sizes: XS-XL
\$74.00

KLONDIKE



A well fitting shirt with traditional tails. The Klondike is made from 100% virgin wool in our tough 18 oz. weight, for years of outdoor use. Front placket, button-down breast pockets, button cuffs, and a comfortably lined collar.



Colors: Camel, Grey
Sizes: XS-XL
\$48.00

DRESS RAGLAN



A dressy 100% virgin wool shirt, nicely tailored from our exclusive selection of 14 oz. tartan fabric. Beautifully finished with raglan sleeves, lined collar, breast pockets, and a shirt-tail cut.



Colors:
MacPherson — Grey/Black/Red/Blue
MacInnes — Green/Black/Blue/Red/Yellow
MacKinlay — Green/Blue/Black/Red
Sizes: XS-XL
\$45.00

SHADOW RAGLAN



Made from our rugged 18 oz. shadow plaid, this 100% virgin wool shirt features raglan sleeves and a straight cut bottom. A great outdoor shirt with placketed front, comfortably lined collar, and two button-down breast pockets.



Colors: Red/Black
Russet/Black
Blue/Black
Green/Black
Sizes: XS-XL
\$42.50

FLANNEL RAGLAN

Soft, soft, so comfortably soft. For year round casual wear our beautiful, 100% cotton flannel shirts come in a variety of exquisite plaid designs. With two button-down patch pockets, button front and cuffs, dress collar, and tails. You will enjoy the comfort of the raglan sleeves and the detail of our workmanship.



Colors: Assorted Plaids
 Sizes: XS-XL
 \$24.00 — 5-1/2 oz. Flannel
 \$28.00 — 8-1/2 oz. Flannel

MOLESKIN RAGLAN

You will enjoy the luxurious feel of this classically British outdoor fabric in our unique Moleskin shirt. The suede-like finish of the tightly woven 100% cotton fustian is extremely durable, yet its nap and texture are exquisitely supple and soft. The traditional shirt tail cut is handsomely accented by raglan shoulders, two button-down patch pockets, placketed button front, and button cuffs.



Colors: Nutmeg, Sage
 Sizes: XS-XL
 \$32.50

CORDUROY RAGLAN

A rugged outdoor companion, our narrow wale corduroy shirt is suited for every use and every season. We have combined the timeless look of soft corduroy with a classic shirt tail cut and a comfortable raglan pattern. The button front is placketed as are the cuffs. There are two button-down breast pockets as well.



Colors: Beige, Claret
 Sizes: XS-XL
 \$30.00

DIGGER

The classic waist coat style in a wool lined, poplin vest. A great combination of good looks, warmth, and features. Ready to serve a broad range of uses, the Digger incorporates CLASS-5's special wool into a rugged poplin shell. Two cargo/handwarmer pockets will keep your fingers warm, while on the inside a spacious breast pocket will keep your valuables safe. The Digger: snap one up, and feel its warmth and comfort.



Colors: Tan / Tartan Lining
 Average Weight: 18 oz.
 Sizes: XS-XL
 \$34.00

PROSPECTOR

The Prospector is for all those times when you feel like staying warm, but not quite like roasting in a more heavily insulated garment. Its durable poplin shell is lined with our exclusive 14 oz. wool to give you just the right amount of comfort. Two cargo/handwarmer pockets, and an inside zip closed breast pocket help to arrange the odds and ends. A three inch extension of the back should keep even those who must sit in cool places, for long periods, quite comfortable.

Colors: Tan / Tartan Lining
Average Weight: 18 oz.
Sizes: XXS-XL
\$38.00



NYLON VEST

A basic outdoor garment offering a great deal of mobility and a wide range of applications. Its healthy layer of goose down protects the critical, heat producing torso. There is a three inch high collar, large, down filled hand-warmer pockets, and snaps to close the vest. The back extends three inches lower than the front for added comfort. Made entirely of our 2.2 oz. taffeta, the down vest has an exceptionally light weight and can be compressed into a very small package.

Colors: Blue, Rust, Tan
Average Weight: 12 oz.
Average Fill Weight: 5-1/2 oz.
Sizes: XXS-XL
\$50.00



ZAP VEST

The poplin outer shell provides the toughness and durability you want, while the very generous amount of goose down provides the warmth you need. Roomy cargo/hand-warmer pockets, identical to those of our heavier parkas, as well as a handy inside breast pocket, offer plenty of storage space. We have covered the #8 nylon zipper with a two inch wide, down filled draft flap. The inside fabric is our 2.2 oz. taffeta that slips on easily and has a comfortable feel.

Colors: Blue, Rust, Tan, Green
Average Weight: 23 oz.
Average Fill Weight: 7-1/4 oz.
Sizes: XXS-XL
\$66.00



POPLIN VEST

To give you a vest that will tolerate a great deal of rough usage, we have blended all the features of the Nylon Down Vest into a more rugged poplin outer shell. The dependable Poplin Down Vest affords maximum durability, compact size, and surprising warmth. At work, or at play, it is a "user's" vest that has developed a sizeable following among active outdoor people. The added water repellency of the poplin also makes this vest a suitable companion in moist climates.

Colors: Blue, Rust, Tan, Green
Average Weight: 17-1/2 oz.
Average Fill Weight: 5-1/2 oz.
Sizes: XXS-XL
\$55.00



CLASS-1 SWEATER



The Class-1 Sweater is an exceptionally attractive and practical hip-length parka. The perfect companion on most any occasion, it is lightweight and compressible, and it will disappear into the smallest spaces. The three inch high, down filled collar, as well as the adjustable snap/elastic cuffs and elasticized hem provide a draft-free snug fit. Our full raglan cut allows you total freedom of movement. The Class-1 features our 2.2 oz. taffeta throughout; and our standard #8 YKK double slider zipper with down filled draft flap will keep your warmth inside. Snaps around the collar for the optional hood, generously cut handwarmer pockets, and an average fill of 8 1/4 oz. of goose down afford optimum comfort in all but the most extreme conditions.

Colors: Blue, Rust, Tan
Average Weight: 25 oz.
Average Fill Weight: 8-1/4 oz.
Sizes: XXS-XL
\$78.00
Optional Snap-on Hood
Available: \$12.00



CLASS-4 SWEATER



The same attractive and sensible design as the Class-1 sweater, but with a more rugged poplin outer shell, makes the Class-4 a tough and practical garment. The sweater style allows freedom of movement while the use of poplin enhances overall wind resistance, water repellency, and durability. A three inch high collar keeps the neck warm, and has a provision for an optional snap-on hood. The draft flap is two inches wide and can be snapped down over the double slider, nylon zipper. Other features include an elasticized hem, snap/elastic cuffs, and roomy, down filled hand-warmer pockets. The Class-4 is ideal around town and campus, where the protection of a full length down parka is not needed.

Colors: Blue, Rust, Tan, Green
Average Weight: 34 oz.
Average Fill Weight: 8-1/4 oz.
Sizes: XXS-XL
\$85.00
Optional Snap-on Hood
Available: \$16.00



CLASS-5 PARKA



Class-5 Parka combines the extreme durability of a poplin shell, the comfort of goose down insulation, and the flexibility of a full length cut. The poplin gives protection from wind and water, as well as extended rough use. A raglan pattern allows a great deal of mobility, and affords constant shoulder loft. There are two spacious cargo/handwarmer pockets insulated with goose down. A waist drawstring aids in tuning the parka to the prevailing conditions, and keeps the wind from rushing up your back. There is a two inch wide storm flap over the two-way nylon zipper, while the sleeves can be sealed with snap/elastic cuffs. Snaps are set into the three inch high collar for attaching an optional hood. Its substantial fill and full length cut make this a warm and luxurious parka indeed. Wherever the north gale blows, treat yourself to a Class-5.

Colors: Blue, Rust, Tan, Green
Average Weight: 37 oz.
Average Fill Weight: 12 oz.
Sizes: XXS-XL
\$98.00
Optional Snap-on Hood
Available \$16.00



PINNACLE



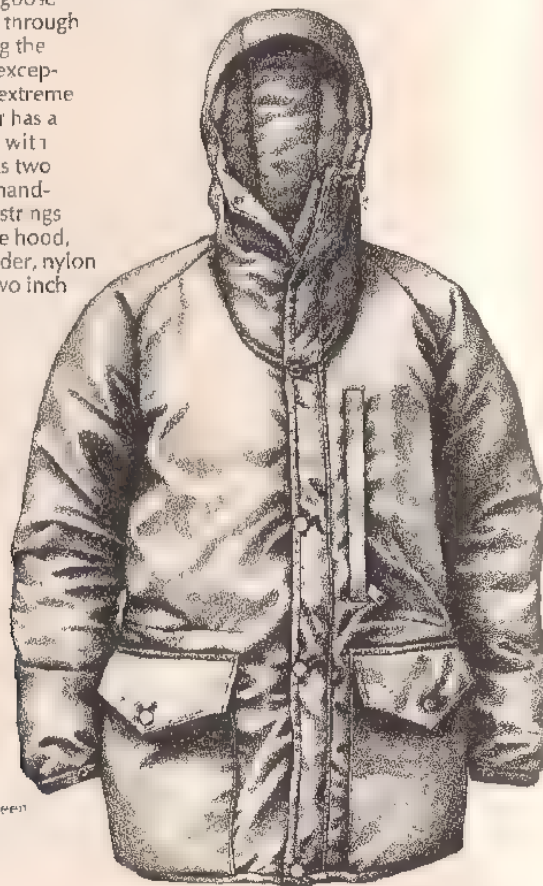
Enjoy the warmth and comfort of a full length goose down parka, and the rugged protection of a poplin shell. The Pinnacle combines both into a luxurious, well appointed garment. Stuffed with an average of 12 oz. of goose down, the quilted inner jacket is attached at its perimeter to an attractive poplin shell. This smooth outer layer provides complete, no-cold-spot protection against wind, rain and snow, and contributes measurably to the exceptional warmth of this parka. Other outstanding features include two large cargo/handwarmer pockets, a two-way, #8 YKK nylon tooth zipper covered by a two inch wide draft flap, a high down filled collar, and a waist drawcord for a snug fit. An optional hood is available.

Colors: Blue, Rust, Tan, Green
Average Weight: 44 oz.
Average Fill Weight: 12 oz.
Sizes: XXS-XL
\$116.00
Optional Snap-on Hood
Available \$16.00



GLACIER PARKA

Glacier Parka is a well thought out, and thoroughly tested insulation system designed to give maximum protection down to sub-zero temperatures. Essentially, the Glacier is a full length down filled, nylon parka sewn into the poplin shell of a Mountain Parka. The poplin outer layer affords an unmatched degree of durability, wind and water resistance, as well as a seam free, no cold spot cover for the underlying goose down jacket. A generous amount of goose down, well distributed throughout the parka, including the integral hood, assures exceptional warmth even in extreme conditions. The Glacier has a spacious breast pocket with zipper access, as well as two large, insulated cargo, hand-warmer pockets. Drawstrings adjust the waist and the hood, and a sturdy double slider, nylon zipper, covered by a two inch wide draft flap, seals the parka.



Colors: Blue, Rust, Tan, Green
Average Weight: 47 oz.
Average Fit Weight: 12 oz.
Sizes: XXS-XL
\$175.00

OPTIMA HEAVY LIGHT

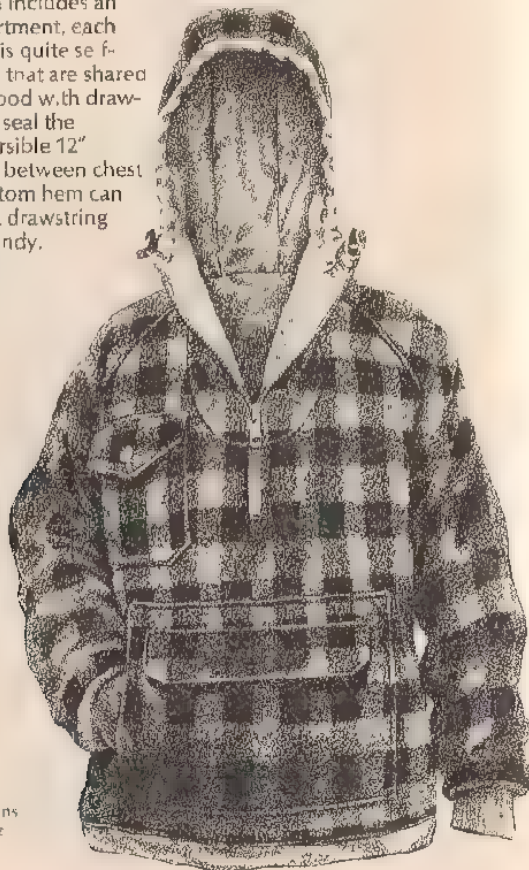
Enjoy the fit and feel of these beautifully tailored woolen pullover shirts. Wear them in town or on the slopes, their simple style is timeless and naturally attractive. Slip into their smooth non-scratch poplin lining and experience the warmth and comfort of the 100% virgin wool shell. Our generous wing collar, lined with soft corduroy, can be worn open, or zipped up to form a protective turtleneck. The spacious front handwarmer pouch is wool-warm and has an inset cargo compartment with zipper closure to hold the small essentials. The square cut bottom hem allows plenty of movement and features a convenient drawcord adjustment. Our beautiful 18 oz. salt and pepper wools used in the heavy Optima, while the light one's made from a 14 oz. wool, in a handsome tartan plaid.

Colors: Camel, Grey (Heavy),
Assorted Tartans (Light)
Average Weight: 32 oz. (Heavy),
27 oz. (Light)
Sizes: XXS-XL
\$67.50



NIMBUS

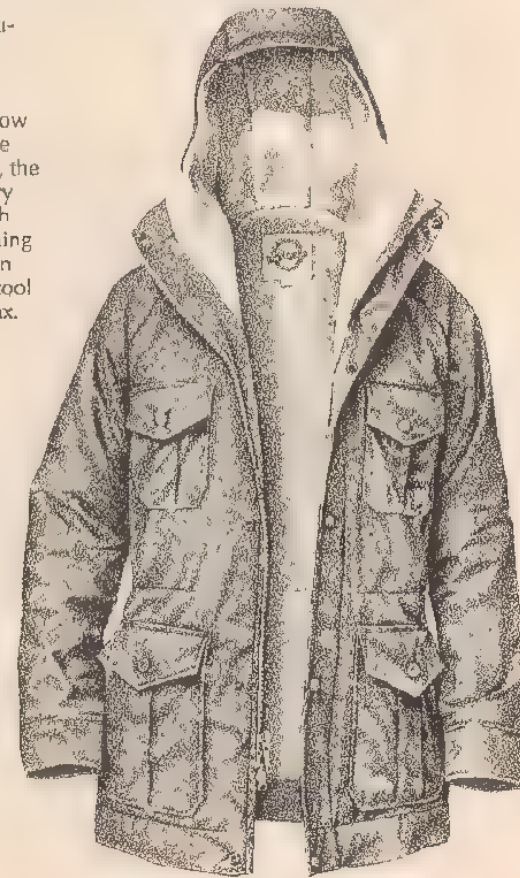
Nimbus is the mating of two fabrics with complementary properties into an attractive and thoroughly functional design. A beautiful anorak cut on a raglan pattern for mobility, it is fully reversible for unmatched versatility. Essentially, we have joined two complete shells, one made of durable poplin, and the other made of our heavy 14 oz. wool, to create a garment that is at once wind and water resistant, and comfortably warm. Fitted with a snap closed breast pocket, and a spacious handwarmer belly pocket which includes an inset cargo compartment, each side of this anorak is quite self-sufficient. Features that are shared include a roomy hood with drawstring, knit cuffs to seal the sleeves, and a reversible 12" nylon tooth zipper between chest and hood. The bottom hem can be cinched up by a drawstring when things get windy.



Colors: Assorted Tartans
Average Weight: 35 oz.
Sizes: XXS-XL
\$76.00

FORNAX

What is a Fornax? A Mountain Parka that is warmer than a Mountain Parka, and quite unabashedly one of the most beautiful and useful shell garments made. It is a full length poplin shell with all the practical features you'd expect from a Mountain Parka plus a comfortable surprise on the inside: a complete lining made of our exclusive 14 oz. wool. Zip up the sturdy, two-way nylon zipper and cinch the hood with its protective bill to surround yourself with soft, warm luxury. Open the waist drawstring and the three position snap cuff to ventilate, if conditions change. Two cargo/handwarmer pockets and two breast pockets are pleated to allow for plenty of storage space. Combine the ruggedness, the wind and water repellancy of poplin with the warmth and comfort of a wool lining and what do you have? An excellent companion in cool and wet weather: a Fornax.



Colors: Blue Green Rust
Tan Tartan Lining
Average Weight: 40 oz.
Sizes: XXS-XL
\$86.00

ALBION

Albion is a simple, warm outer jacket. The 18 oz. 100% Virgin Wool is woven for Class 5 and cannot be surpassed in durability. There are four roomy pockets on the front of this jacket. Two handwarmer pockets are set just below two large breast pockets. The shoulders are protected with two full layers of wool. This cape extends from the top of the shoulders to the top of the breast pockets in front—and an equivalent distance down the back. The cuffs, breast pockets and front of the Albion are snap closed. The Albion is designed to be functional utilitarian clothing. As with most utilitarian design, the end result is quite pleasing to the eye. As with all Class-5 products, long service may be expected.

Colors: Camel, Grey
Average Weight: 28 oz.
Sizes: XS-XL
\$49.50



LABRADOR

An concept, the Labrador is meant to be a hefty garment, though not massive. When flexibility and utility are required, without an extreme degree of protection, the Labrador is an excellent choice. A cape covers the top of the trunk, front and rear. Pockets are set below the cape, on both the front and rear—therefore double layers of cloth cover the grand majority of the torso. There are two cargo pockets, two handwarmer pockets, two breast pockets and a large side-access rear cargo pocket. In consideration for folks with an aversion to clothing that clicks, we have used only buttons to accomplish front, pocket and cuff closure. The Labrador is made of 18 oz. 100% virgin wool. Years of service may be expected from this rugged garment.

Colors: Camel, Grey
Average Weight: 37 oz.
Sizes: XS-XL
\$68.00



FUNDY

Fundy is an extra-heavy wool jacket with the capability of providing protection from extreme weather. With the exception of a few small areas above the hips, the Fundy contains the entire upper body in at least two layers of solid 24 oz. 100% Virgin Wool. The upper torso and sleeves are covered by a full cape. The cape (or outer shell) is cut in one piece, completely eliminating shoulder top seams. Though this one piece cape is more difficult to cut and sew, it provides the wearer with greater comfort and warmth. There are eight huge pockets on the Fundy: two front cargo pockets, two breast pockets, two handwarmer pockets, a pencil pocket and a rear cargo pocket. In the back, set just below the bottom of the cape, is the rear cargo pocket. Access to this pocket is gained by snap closed flaps on both sides. The inner sleeves and front of the Fundy are closed by the time tested button and hole method. Combined with a good sweater and cap, the Fundy will see you through just about anything.



Colors: Red, Black Plaid,
Mossy Green Plaid
Average Weight: 66 oz
Sizes: XS-XL
\$89.50

KAMLEIKA

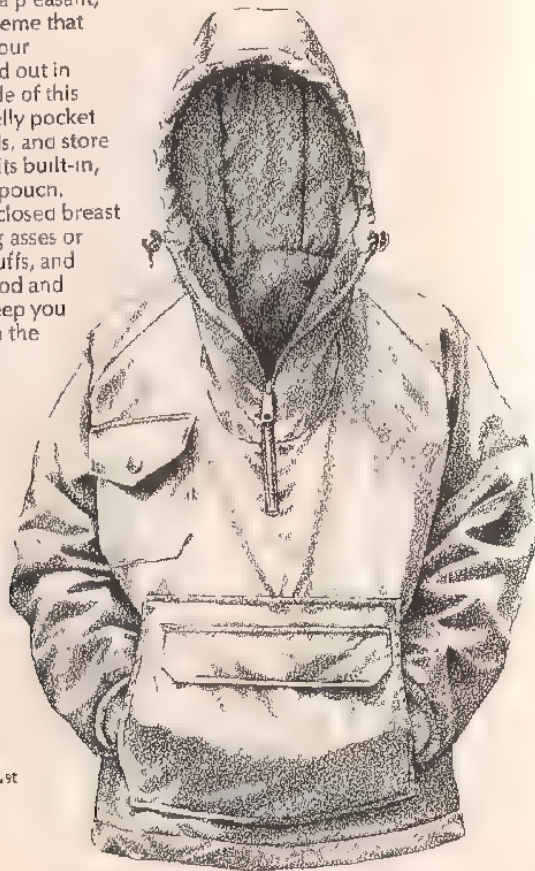
Year round protection against the cold wind and rain built into an attractive, trim fitting poplin pullover shirt. The Kamleika has two complete layers of poplin for added warmth and durability. The inherent breathability of poplin is ideally suited for active outdoor use. Whether you're running to catch the bus or pushing your skis across the snow, you won't get a steamed up in our Kamleika. A handsome wing collar is lined with our warm, nicely contrasting plaid flannel, and can be zipped up into a protective turtleneck. The front handwarmer pouch has an inset, zipper closed cargo compartment, and features a comfortable flannel lining against the back of the hand as well.

Colors: Blue, Green, Tan, Rust
Average Weight: 24 oz
Sizes: XXS-XL
\$46.50



STRATUS

Think of it as a wind proof and water resistant shell, or think of it as a Mountain Parka that extends to your waist. Whichever way you look at it, the clean lines and functional concept of the poplin pullover have earned this style a sizeable following. Ideal for climbing, cross-country skiing, or bicycling, where your legs need lots of room to move, the simple efficiency of the Stratus cannot be surpassed. It is a fully reversible anorak with identical features on each side. The two complete layers of our durable poplin have a pleasant, contrasting color scheme that lets you blend into your surroundings or stand out in a crowd. On each side of this anorak a spacious belly pocket will warm your hands, and store your miscellaneous area in its built-in, zipper closed cargo pouch. There is also a snap closed breast pocket for your sunglasses or wallet. Elastic knit cuffs, and drawcords at the hood and bottom hem will keep you snug and tight when the weather gets ugly.



Colors: Blue, Green, Rust
Tan Reverse
Average Weight: 28 oz
Sizes: XXS-XL
\$50.00

VELA PARKA

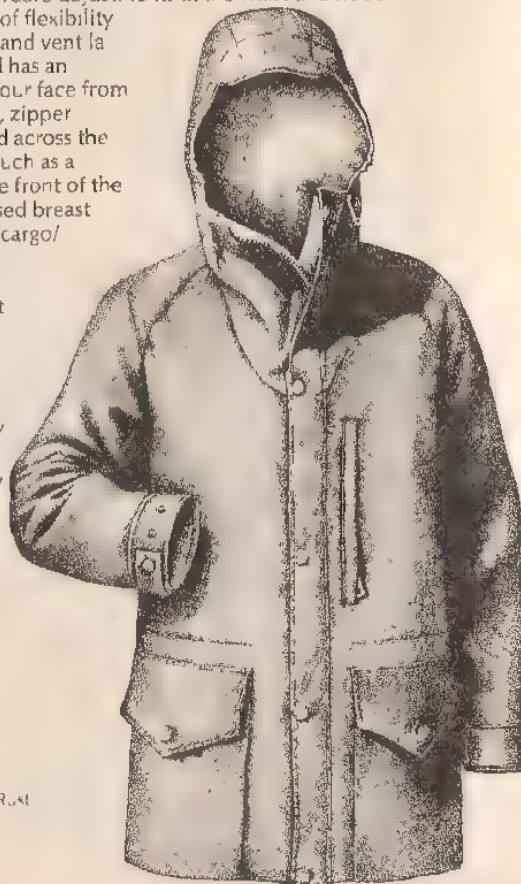
Vela is a stylishly tailored shell that will keep you comfortably sheltered from the cold wind and rain. Its design blends all the useful features of a standard Mountain Parka into a trim fitting, and attractive looking year-round garment. The durable poplin outer layer is handsomely accented with four gusseted pockets—two breast pockets, and two cargo/handwarmer pockets—all snap closed. The Vela has an inner layer of poplin which completely lines the sleeves and integral hood, and extends to the waist as well. The handy #8 YKK nylon double slider zipper is covered by a two inch wide draft flap to keep you snug when the wind starts blowing. Slip into a Vela on any occasion, save the most extreme, for a delightful experience of a new concept in shell protection.



Colors: Blue, Green, Tan, Rust
Average Weight: 30 oz
Sizes: XXS-XL
\$59.50

MOUNTAIN PARKA

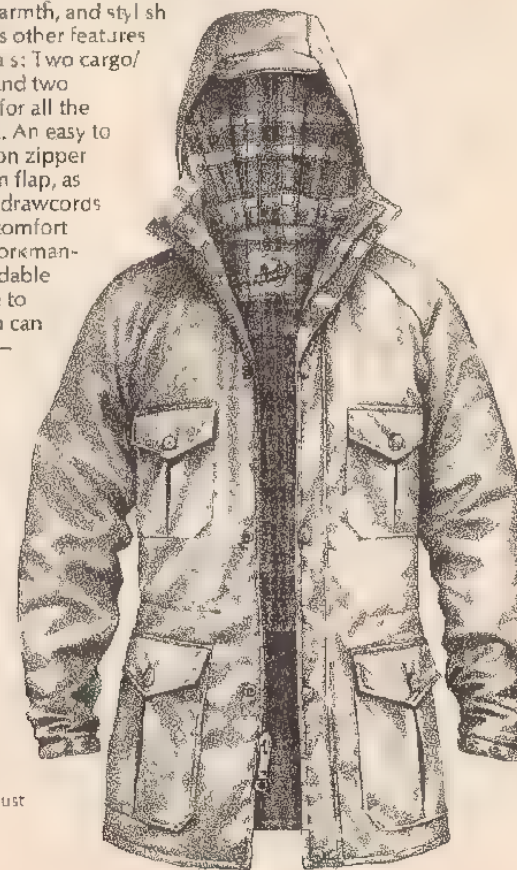
A classic piece of mountain wear. Refined over the years, the Class-5 Mountain Parka has emerged as one of the most rugged and practical outdoor garments you can own. It is a solidly sewn shell of two complete layers of our durable poplin, cut generously to fit over down sweaters, vests, or wool clothing. A sturdy #8 YKK nylon zipper is covered by a two inch wide flap to shield against drafts. A small chin guard will keep the zipper off your throat. Wrist gussets, with our three-way snap closure, as well as drawcord adjustments at the waist and hood allow you a great deal of flexibility in controlling warmth and ventilation. The built-in hood has an integral bill to shield your face from rain and snow. A large, zipper closed pocket is placed across the back for bulky items, such as a sweater or a lunch. The front of the parka has a zipper closed breast pocket, and two large cargo/handwarmer pockets. You will enjoy the freedom of movement provided by the full raglan cut as well as the absence of exposed shoulder seams. What more can we say about this reliable mountain companion, except that it wears, and wears, and wears.



Colors: Blue, Green, Tan, Rust
Average Weight: 38 oz
Sizes: XXS-XL
\$68.00

ORION

Imagine a parka with all the useful features of a Mountain Parka and the graceful lines of town and country wear. Imagine a parka with a durable poplin outer shell and the soft comfort and good looks of Class-5's exclusive cotton flannel lining in the sleeves, hood, and torso. Imagine slipping into the warmth of our Orion on a crisp autumn morning. On your way to the office, or at your timberline camp, the Orion is at home wherever you are. We have taken our trim fitting Vela parka and replaced its poplin lining with luxurious cotton flannel to give you comfort, warmth, and stylish good looks. The Orion's other features are identical to the Vela's: Two cargo/handwarmer pockets, and two pleated breast pockets for all the storage space you need. An easy to adjust two way, #8 nylon zipper with a snap-down storm flap, as well as hood and waist drawcords to help maintain your comfort. And our impeccable workmanship for years of dependable service. You don't have to imagine this parka. You can slip one on. The Orion—we make it.

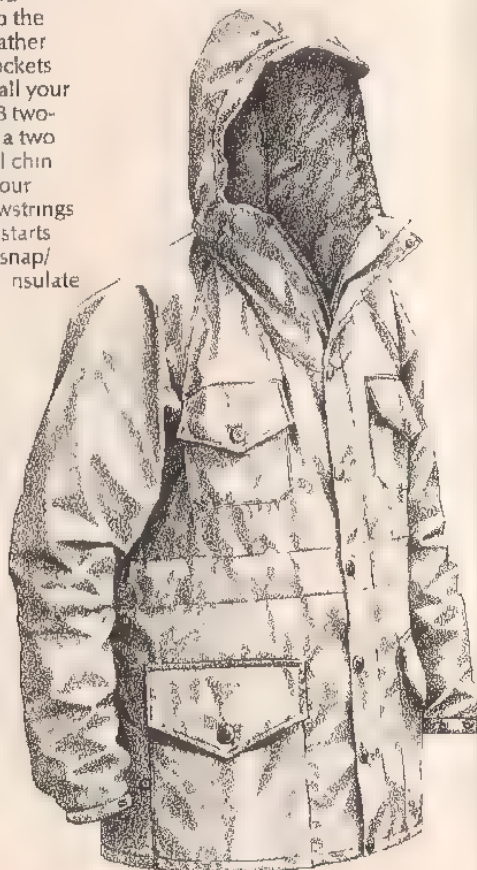


Colors: Blue, Green, Tan, Rust
Average Weight: 32 oz
Sizes: XXS-XL
\$66.00

MONSOON

Monsoon is a beautiful, single layer Gore-Tex laminate shell that will keep out wind and rain, in the mountains or at home. The tightly woven taffeta fabric is lined with a fine nylon tricot to protect the Gore-Tex laminate against abrasion. The unique combination of waterproof and breathable

properties in the Gore-Tex allow you to do almost anything in your Monsoon—short of running a marathon—without fear of overheating or perspiration build up. Its comfortable hood has a poplin lining for extra warmth, and a bill that will keep the face snug and dry when the weather gets rough. Four snap closed pockets on the front will securely store all your odds and ends. A full length, #8 two-way nylon zipper is covered by a two inch wide draft flap, and a small chin guard at the top to keep it off your throat. The hood and waist drawstrings can be cinched when the wind starts blowing; and our two position snap/elastic cuffs let you ventilate or insulate as the weather demands.



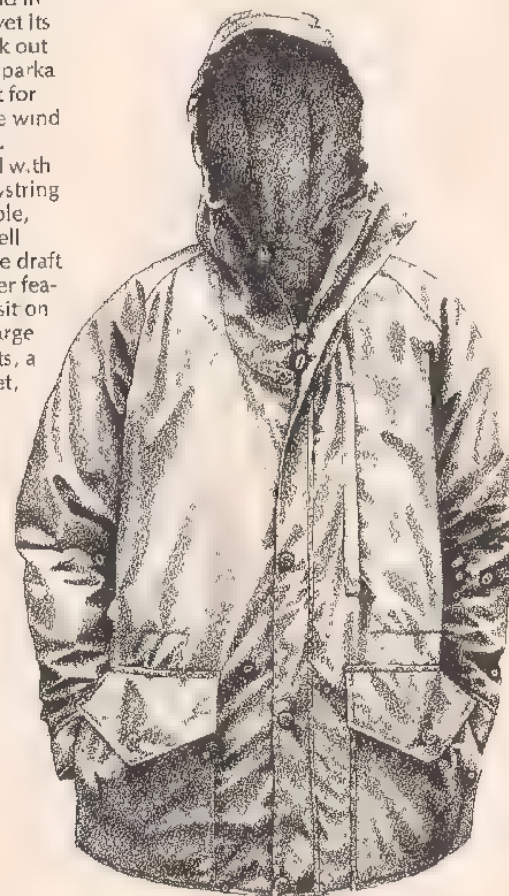
Colors: Blue, Tan
Average Weight: 21 oz
Sizes: XXS-XL
\$65.00

CLOUDBURST

When you are caught in a cloudburst it is good to be in one of our Cloudbursts, for it will keep you going dry and warm. The rugged taffeta fabric is a soft feeling, texturized nylon that will keep looking good year after year. On the inside a Gore-Tex film is

laminated to the taffeta and protected against abrasion by a full length poplin lining; this adds wind protection and extra warmth as well. The Cloudburst has all the practical features you'd expect to find in quality foul weather gear, yet its attractive design won't look out of place around town. The parka can be cinched at the waist for a close fit that will keep the wind from rushing up your back.

There is also a roomy hood with a protective bill and a drawstring adjustment. Our dependable, two-way nylon zipper is well covered by a two inch wide draft flap and a chin guard. Other features include our three position gusseted snap cuffs; two large cargo/handwarmer pockets, a zipper access breast pocket,



Colors: Blue, Tan
Average Weight: 36 oz
Sizes: XXS-XL
\$88.00

POPLIN CRUISER

Poplin Cruiser, being made of a light but durable 50% cotton/50% polyester poplin fabric, is intended for warmer climates. It is ideal summer outerwear. There are six pockets on the front: two cargo pockets, two handwarmer pockets with two breast pockets above. These pockets, plus a large rear cargo pocket, give the Poplin Cruiser as much versatility as a jacket can have. The shoulders, front and rear, are taped. Atop the shoulders are set a pair of functioning epaulettes. Snaps close the pockets front and cuffs. As in all CLASS-5 products, every detail is designed for the sake of utility and durability. The cloth is our own heavy poplin which can abide hard use for years. The Poplin Cruiser is a comfortable, durable light jacket suitable for casual or utility wear.

Colors: Indigo, British Tan
Average Weight: 24 oz.
Sizes: XS-XL
\$45.00



PACKS

A good pack can make an important contribution to your enjoyment of the outdoors. It will carry its load comfortably, with a minimum of frills, and without being a constant reminder of its own presence. CLASS-5 specializes in the manufacture of small and medium size softpacks, as well as large internal frame backpacks. Our designs are a synthesis of simplicity and function. In our view, a solid and simple design will be both versatile and dependable.

Volume: The basic design criterion for a pack has remained unchanged for a long time: to create a container that will hold a cargo and protect it against the elements, and to suspend that container comfortably on the wearer's back. The volume of such a container then, will obviously determine its possible range of uses. A large pack can cope with a large load. Extended backcountry trips, or continental treks require large cargoes to maintain a person's minimum level of comfort. A picnic lunch, a tennis racquet, or a notebook for the morning lecture all require less space and will fit comfortably into a smaller daypack. In fact, excess capacity will cause a small load to shift and wander. To a cross-country skier trying to maintain a clean stride, such shifting can be a major annoyance. The optimum volume of a pack, therefore, depends on both the size of the intended load and the degree to which that load must be held stationary.

Shape: The capacity of a pack perforce affects its shape and method of suspension. In turn, these two factors determine the relative comfort the wearer can expect from a pack with a given load. Shape is critical to the flexible distribution of cargo within the pack. A laundry sack slung over

the back is the needle and thread equivalent of a rivet. A reinforcement created by sewing many adjacent lines of stitching over the same point. They are used at all major stress points in CLASS-5 packs.

Cordura is the DuPont trademark for a rugged nylon cloth woven with triangular yarn. It has a high tear strength and is very abrasion resistant. We employ two weights of Cordura: 7.5 oz. in smaller packs, and 11.5 oz. for the larger ones, and insure its waterproofness by applying a polyurethane coating to the back side.

Ensorite is the Un Roy trademark of a closed cell foam which we incorporate as a padding in our shoulder straps and hip belts. The type we use is specifically formulated for the rigors of athletic applications, and will retain its ability to cushion for the life of the pack.

your shoulder will cause you to stoop forward in an effort to compensate for its low center of gravity. A well designed backpack, on the other hand, offers the load adjustment flexibility necessary to maintain a comfortably upright balance on different sorts of terrain. Naturally there is an optimum shape for each possible application. A cross-country skier will appreciate the freedom of movement that a pack without side pockets offers his swinging arms. Yet, a backpacker on an extended trip will value the extra capacity of those same pockets. On a short climb, or day hike the form fitting teardrop shape of the smaller packs will be so comfortable as to go almost unnoticed on your back.

Suspension: The volume and shape of a pack will determine the kind of suspension system needed to maintain an agreeable level of comfort. To achieve that comfort is not so simple. No two loads are alike, nor are the bodies carrying them. The successful design of a suspension system must therefore anticipate large differences in load and anatomy. It should be noted, however, that the potential values of stress, which obtain for the suspension systems of large backpacks far exceed the comfort threshold and load carrying capacity of most bodies.

Owing to their small size and relatively limited capacity, all of our daypacks are fitted with a simple and efficient combination of padded shoulder straps and a nylon waist strap. The latter serves to check excessive swinging of the pack while skiing or bicycling. As load capacity increases, shoulder straps become inadequate to support the cargo which the pack can accommodate. The best way to suspend a big load is to enlarge the small waist strap to a fully padded belt, and to connect this belt with the shoulder

Hardware: all grommets and eyelets used on CLASS-5 backpacks are made of nickel plated brass. Buckles, hooks, D-rings and tabulars are made of nickel or chromium plated steel.

Leather: the bottom of a pack suffers more abrasion than any other area. Many of our packs, especially those suited to climbing, have leather bottoms and adjacent sewals to tolerate that kind of use. CLASS-5 uses 8.5 oz. triple chrome tanned, full grain leather in all applications. The rough side is left exposed since it is the most abrasion resistant. Also, protection of the smooth side will maintain the natural water repellent qualities of leather.

straps through an internal frame. The padded waist belt can then be cinched across the hips to carry the load which the internal frame has transferred there from the shoulders.

CLASS-5 was the first to use an internal frame system consisting of two medium-stiff aluminum stays set inside the backpack in an "X" configuration. Overall stability and vertical load transfers achieved by connecting the upper portion of these stays to adjustable tensioning straps sewn into the shoulder pads, while the bottom ends are secured to the waist belt. The stays themselves are concave to conform to the wearer's back. This combination of internal frame, tension straps, and padded waist belt allows large loads to be carried with a minimum of pitch and swing. The incredible elasticity of our "X" frame system makes it the most comfortable suspension for heavy, not extreme, loads.

Construction: Backpacks are subject to an incredible amount of use and abuse. No other piece of outdoor gear receives the rough kind of treatment that packs undergo with regularity. Packs have to be tough indeed to withstand the constant abrasion action of rock and sand, the extreme stress of heavy loads, as well as the aging processes of rain, snow and sun. But, whether you are carrying some books and lunch in a daypack, or two weeks' food and gear in a large "X" frame backpack, you can rely on the quality of our workmanship. CLASS-5 packs are built from the finest materials available. And they are built to last. Your CLASS-5 pack will be a source of pleasure and a gracefully aging companion for many seasons.

Nylon Webbing: is the flat strap material incorporated into our hip belts, shoulder straps, waistbands, and cinch straps. Most adjusting straps are one inch wide and have a textured surface that will not slip through buckles when under load. Our hip belts use wider, two inch webbing for better weight distribution.

Thread: CLASS-5 uses a very heavy Coats and Clark's 24/12 Dacron thread with a cotton wrap. The cotton wrap protects the core from abrasion and greatly extends the life of the seam.

Side Pockets: the side pockets on CLASS-5 packs will accommodate a one liter fuel canister or water bottle.

Zippers: we use only YKK nylon coil zippers in our packs. A coil zipper, being a continuous spiral of nylon, does not have individual teeth to shed under stress, as is common with tooth zippers. If they do separate, coil zippers may be mended by zipping back and forth over the break. All zippers on CLASS-5 backpacks are covered by a weather flap along the entire length.

EL CHEAPO

The large, undivided main compartment of the El Cheapo is great for books and easy to get into with its 35 inch long, double slider nylon coil zipper, protected by a storage flap. A small, zippered back pocket will keep all your odds and ends handy. We've made the El Cheapo from our tough 7.5 oz. Cordura for years of rugged use. Your shoulders will enjoy the comfort of padded straps. And a small waistband will keep the El Cheapo steady, even when you're not.

Volume: 850 cu. in.
Weight: 17 oz.
\$18.95



BUCKSHEE

Easy to load, easy to wear, and easy to take anywhere. A sturdy, 22-inch two-way coil zipper lets you reach into the spacious main compartment which will hold your lunch, your camera and sweater, or your books and binders. A smart looking diagonal zipper gives access to a back pocket, ideal for all those easily lost small items. Fully padded shoulder straps, and a waist band help carry and steady the load. The fabric is our durable, coated 7.5 oz. Cordura.

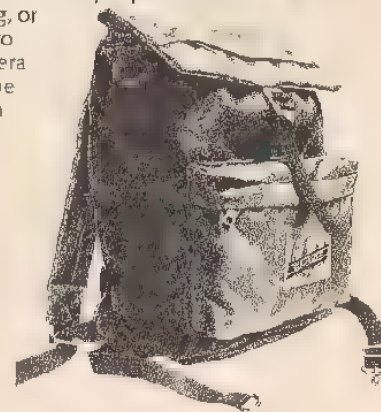
Volume: 800 cu. in.
Weight: 15 oz.
\$16.50



POPPY

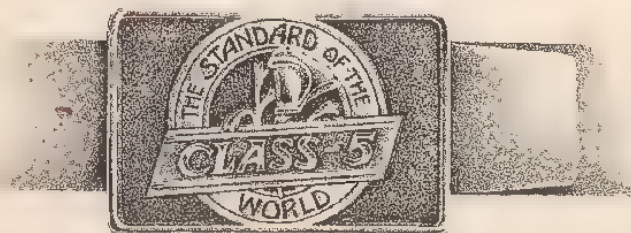
An "everydaypack," our Poppy has loads of room for lots of gear. The easy to use drawstring and camlock closure means that the big, top loading main compartment can easily expand to hold books or extra clothing, or cinch down to carry but your lunch and camera. We've included a pocket in the top flap and on the back, both zipper closed, to help you organize the miscellanea. The tough 7.5 oz. coated Cordura fabric will weather the seasons gracefully. The Poppy's padded shoulder straps and handy waistband will feel comfortable on your back.

Volume: 1168 cu. in.
Weight: 6 oz.
\$22.50



BELT BUCKLE

Put a poppy on your pants with our great looking belt buckle. The bas-relief of CLASS-5's beautiful poppy logo is struck in solid brass, three inches wide and two inches high.

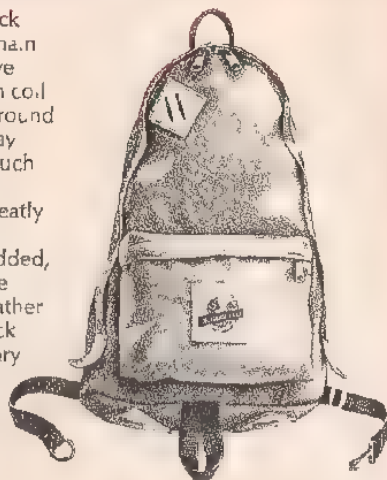


Average Weight: 7.7 oz.
\$6.95

TRIPPER

A teardrop shaped pack with a continuous main compartment. We've sewn a long 35 inch coil zipper all the way around the sides. Its two-way sliders let you open the Tripper as much or as little as you need. Your wallet, sunglasses, or paperback will stash neatly into the zipper closed back pocket. Naturally, the shoulder straps are padded, and there is a waistband to steady the Tripper. We've included an offset leather patch and a webbing loop on the back for your ice ax or tripod, two accessory patches on the bottom, and a sturdy haul loop at the top.

Volume 839 cu. in.
Weight 17 oz.
\$27.50

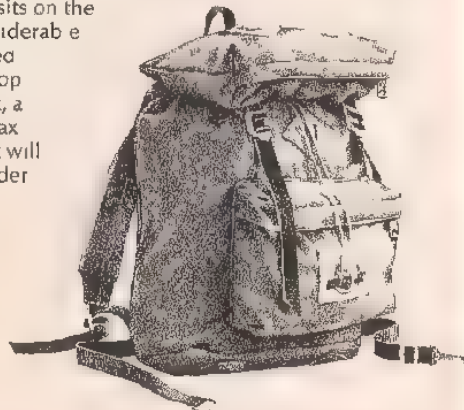


DAYPACK

The Daypack is a real cargo hauler. Its huge primary compartment has a drawstring and cordlock closure, and adjusts easily to any load, big or small. Two large, zipper closed pockets—one is built into the top flap, the other sits on the back—add considerable

storage capacity. We've provided accessory patches on both the top flap and bottom of the Daypack, a strong hauling loop, and an ice ax patch and loop on the back that will hold your tripod too. The shoulder straps are thickly padded and, along with the waistband, keep the Daypack clinging to your back. The fabric is our strong 11.5 oz. coated Cordura.

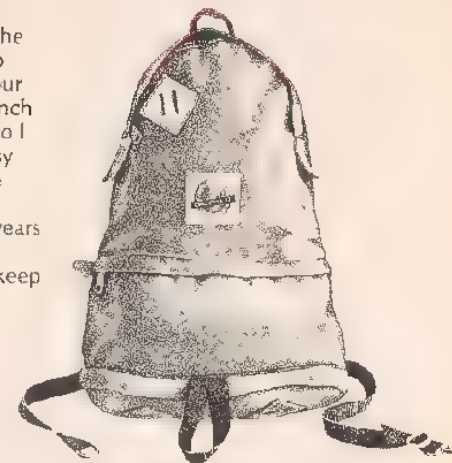
Volume 1456 cu. in.
Weight 21 oz.
\$29.50



TEARDROP

A classic shape, a classic function. The two compartments of the Teardrop will keep your camera off your lunch, and your lunch out of the lens. Two sturdy, nylon coil zippers with weather flaps offer easy access to both top and bottom. The rugged 11.5 oz. Cordura fabric and thick leather bottom will give you years of dependable service. The padded shoulder straps and the waistband keep the Teardrop comfortable.

Volume 728 cu. in.
Weight 21 oz.
\$35.00



LICHENEIGER

The ideal overnight pack, the Licheneiger is easy to load and easy to use. A 14 inch nylon snow skirt, sewn into the top of the main compartment, offers the necessary load carrying flexibility.

There are independent drawcord and camlock closures for both the skirt and main compartment. We've fitted the Licheneiger with thickly padded shoulder straps and a secure waistband. There are two zipper closed side pockets and a built-in top flap pocket. You can expect years of rugged use from the heavy-duty 11.5 oz. coated Cordura, and the thick leather bottom.

Volume 1512 cu. in.
Weight 40 oz.
\$45.00



MOUSETRAP

A tra. pack, cross-country pack, climbing pack, skiing pack, or travel pack—the Better Mousetrap does all this and more. The internal frame distributes any load comfortably between the padded shoulder straps and the Ensolite cushioned hipbelt. Cinch straps across the back of the pack compress the load against your back, prevent troublesome shifting, and improve your center of balance. And everything's easy to get to in this pack. Your Better Mousetrap will open like a suitcase to reveal all its contents at a glance. Two side pockets, and one large back pocket, all zipper closed, add room to organize the odds and ends. Leather accessory patches on top, bottom, and back let you load up even more. Best of all, it comes in two sizes. Whether you're bushwhacking in the Cascades, or hitchhiking across the Continent we think you'll agree: there isn't a better Mousetrap than ours.

Volume 2760 cu in (Reg 3350 cu in Lg)
Weight 55 oz (Reg 60 oz Lg)
\$66.00 (Reg 1 \$69.90 Lg)



BACKEX

A real trail cruiser, the Backex is our largest pack. You can stuff it with everything your old frame pack can hold, yet walk along in greater comfort. Our "X" frame suspensions sees to that. Cinch straps join the top of this internal frame to the padded shoulder straps. Feel the Backex clinging to your back when you give those straps a tug. The bottom of the frame distributes the load to the comfortably cushioned, and easily adjustable hipbelt. The Backex has three separate compartments and three outside pockets with lots of space to organize your cargo. The large main compartment, and the smaller, lower one are both accessible through our horizontally placed, #10 double slider, coil zippers; while the top compartment has its #5 coil zipper conveniently located behind the head to keep the small essentials within easy reach. The two roomy side pockets, and the back pocket are also zipper closed. We've not forgotten to give you some handy accessory patches on top and bottom, as well as an axe holder and a hauling loop. The fabric is our tough waterproof coated 11.5 oz. Cordura, and the sturdy, abrasion resistant leather bottom extends partially up the sides for added protection.

Volume 3732 cu in
Weight 82 oz
\$84.50



QUIMEX

The Quimex is a more technical version of the Backex. We have removed the side pockets in a deliberate attempt to influence the pack's stability and balance, as well as to improve the mobility of the user. Climbers and skitourers alike will find the clean, unencumbered shape of the Quimex a delightful companion wherever they're going. In place of the pockets we've provided leather patches to take your skis, and internal pockets that are accessible from the outside through diagonal zippers. Our internal "X" frame suspension spreads your load comfortably between the thickly padded shoulder straps and hipbelt. The Quimex is divided into three, zipper closed compartments that allow you to distribute your gear efficiently. The top compartment's zipper faces the head, so you can reach in without unsaddling. We've retained the zipper closed back pocket to keep small things handy. Accessories include leather patches on top and bottom, an ice ax holder, and a hauling loop. The Quimex is made from our dependable, waterproof 11.5 oz. Cordura fabric, and has a substantial leather bottom for years of trouble-free service.



Volume 3186 cu in
Weight 80 oz
\$84.50

SLEEPING BAGS

Any discussion of sleeping bags must be prefaced by several thoughts. First, a sleeping bag cannot and does not generate warmth. Only the human body can provide heat which the sleeping bag then attempts to retain. Hence, the maximum insulation capability of any bag is necessarily related to the amount of body heat available. Like a thermos bottle, a sleeping bag will keep warm what is warm, but no amount of wishful thinking will enable it to warm up what is cold. Also, due to the compressible nature of most of the insulation materials used in bags, particularly goose down, they cannot prevent conductive heat loss to the ground when compacted under your body's weight. Any mention of the warmth of a sleeping bag therefore assumes the use of a suitable sleeping pad for outdoor ground insulation. A sleeping bag's ability to retain the warmth you generate is determined by several factors. Primarily, the amount of insulation, the method used to stabilize it, and the loft it produces. The overall shape of the bag, and the efficacy of the closure are also important. CLASS 5 uses both goose down and the latest synthetic fibers in the construction of its sleeping bags. Since these insulators have widely divergent physical properties it will be helpful to reflect briefly on the different construction techniques.

Construction: Goose down is light, fluffy, and easily displaced. Two long pieces of nylon, sewn together only around the edges, and filled with a pound of this fluffy stuff would scarcely resemble a modern day sleeping bag as much as an old time featherbed. And like those featherbeds it would suffer the problem of down migration. To prevent cold spots caused by such migration, the goose

baffles: our standard box baffles are sewn vertically between the bag's shells. In a standard box construction the baffle is sewn one half the width of the compartment so that its top and bottom stitch lines are offset. Where standard baffles are used, CLASS 5 bags they are arranged into a chevron pattern to ensure minimum down shift and maximum loft.

Down Mite: a persistent problem that mesh is used behind our baffles. It will with stand years of rigorous use without structural deterioration. In addition, the bag's fine extract mesh effectively prevents down migration between baffle compartments.

down must somehow be contained to form an even layer across the entire surface of the bag.

We employ two distinct means of controlling the movement of goose down in our sleeping bags. The first method is known as sewn-through or quilted construction. This involves sewing through the inner and outer shells of the sleeping bag in such a way that parallel sets of tubes are created across the top and bottom halves of the bag. When filled with goose down and sealed at both ends, these independent chambers effectively curtail any large scale migration of down. This is the lightest and simplest means of controlling goose down.

The second method, known as the Baffle Technique, is a more complex and also a more heat efficient way of controlling down movement. In order to form parallel tubes across the bag the inner and outer shells, rather than being sewn to each other, are joined by a piece of light cloth—the baffle, inserted between them at regular intervals. A network of inner walls is created which defines the down-filled spaces and prevents down migration from one end of the bag to the other. And since there is no contact of inner and outer shells along stitch lines, heat loss is significantly reduced. To further enhance the thermal efficiency of this construction method, the baffles can be slanted, or offset between the top and bottom stitch lines. This prevents direct radiation between baffle compartments as every inch of stitch line is covered by a uniform layer of goose down.

Isotherm: The addition of a number of synthetic bags to supplement our immensely popular and widely accepted down sleeping bag series, represents one of our most exciting directions for the

Differential Cut is the difference in circumference between the smaller inner shell and the larger outer one. This design promotes loft and prevents cold spot contact of the shells at typical pressure points such as elbows and knees.

Goose Down has the most efficient volume to weight ratio of any known insulation material. It is lightweight, extremely compact and incredibly resilient. CLASS-5 maintains minimum fill power standards of 550 cubic inches per ounce to insure a consistently high loft. Additional information on goose down can be found in the introduction on clothing.

new season. Why synthetic? Simply answered, the most compelling reason for the use of synthetics has to be economics. Down, once a relatively inexpensive and little used animal by-product has, through over-demand and under-supply, been propelled into an ever escalating price spiral. Down costs have risen several hundred percent over the last six years and have surpassed labor as the single most expensive item in the manufacture of a down sleeping bag. This situation created the need for a suitable alternative in sleeping bag insulation. Design experiments in synthetic filled garments of years past have given us a certain familiarity with the unique properties of the different synthetic insulation materials available today. They tend to absorb very little moisture and dry quickly which is important in wet/cold climates. They maintain a consistent loft, resist abuse, are easily washable and completely non-allergenic. Yet our previous experiences with these synthetics revealed that they were far from ideal and that our present design criteria for synthetic sleeping bags would be hard pressed. Firmly believing that simple is beautiful, and that seemingly complex problems sometimes have obvious solutions, we decided on a concept that is as revolutionary as it is simple. By combining the best functional features of two synthetic fibers, that were thought to be quite dissimilar and incompatible, CLASS-5 has created an insulation system with a superior loft to weight ratio, an enhanced insulation value, and increased resilience and compressibility.

We call this system IsoTherm, for no matter which surface point you check, our system delivers constant loft and constant insulation values across the entire sleeping bag. Simply explained, we

Fabrics depending on the model we use a 1.9 oz ripstop nylon or a 2.2 oz taffeta in the construction of our sleeping bags. These fabrics are treated with Zepeal to provide some water repellance and stain resistance. Trimmings: a soft and durable cloth consisting of 25% cotton, 25% nylon, and 50% polyester is used on the inside of some of our sleeping bags.

Hollofil II is a Dacron polyester fiber insulation made by DuPont. Its unique hollow core fibers increase the insulating surface area and deliver long lasting loft and maximum warmth. Hollofil II is non-allergenic, washable and extremely durable. (For additional information on Hollofil II please refer to the introduction on sleeping bags.)

quilt layers of Hollofil II, whose surfaces have been stabilized through a "millimeter thin" heat seal, to the inner and outer shells of the bag and then float a layer of PolarGuard in between. This method fully exploits the inherent structural advantages of the respective fibers. Hollofil II fibers are of a short length with unusual resilience and fluffiness. Consequently very little loft is lost in quilting this material to the shell fabric. In addition, the greater insulation of the fiber's hollow core, combined with its body contouring characteristics, enables us to use lighter layers of Hollofil II without adversely affecting a sleeping bag's insulation potential. The naturally cohesive structure of the long, continuous fibers of PolarGuard on the other hand, is ideally suited to its IsoTherm application as a floating layer. Attached along its edge to the Hollofil II this float will not separate or distort even after repeated washings. In this free configuration the PolarGuard can realize its full loft potential and enhance the sleeping bag's overall insulation value.

CLASS-5's exclusive IsoTherm system means synthetic bags with more loft, less weight, and increased warmth. Hollofil II is the principal synthetic fiber used by CLASS-5 in sleeping bag construction. As the name implies, the millions of individual strands that make up Hollofil II's overall structure have a hollow core. The additional dead air space created by this unique property provides thicker, loftier layers, and enhances the overall insulation value of a given amount of Hollofil II. In addition, the constituent fibers of this insulator are relatively short, producing a pleasantly soft, down-like quality unmatched by other synthetic insulators. To stabilize these short length fibers the exposed surfaces of Hollofil II are heat sealed to provide a thin boundary

IsoTherm is our trademark for the unique synthetic insulation system which combines quilted heat sealed layers of Hollofil II with floating layers of PolarGuard to give you remarkable loft, warmth, and resilience in sleeping bags. (For more information on IsoTherm please see the introduction on sleeping bags)

Leather Friction Sliders are perforated leather discs through which drawcords are threaded. They are simple to use and allow minute adjustment without jamming or freezing.

layer that prevents fiber migration and offers a suitable interface for fabric attachment. Thus, in CLASS-5 sleeping bags Hollofil II is sewn directly to the nylon shell—a process known as quilting. This is an efficient and simple method of providing a constant, stable layer of insulation across the bag. To increase the loft of a bag, several layers of Hollofil II may be placed on top and bottom. In our exclusive IsoTherm construction two layers of Hollofil II are separated by a floating layer of PolarGuard to provide optimum and consistent loft across the entire surface of the sleeping bag. PolarGuard is a continuous filament synthetic fiber which is produced in different densities and is available in long rolls up to 60 inches wide. Making a PolarGuard sleeping bag essentially involves nothing more complicated than cutting off pieces of the fiber and arranging these in various ways between two layers of nylon. Since PolarGuard has an inherently more cohesive structure than goose down it is much easier to maintain in an even layer across the body. CLASS-5's exclusive IsoTherm construction uses PolarGuard in a floating configuration between layers of Hollofil II. To stabilize its position within the bag, the PolarGuard layer is sewn all around its perimeter to the Hollofil II, which in turn is quilted to the sleeping bag's shell. This method assures unrestricted loft and an even distribution of the PolarGuard layer to give you maximum insulation.

Loft refers to the thickness of a sleeping bag's insulation in its non-compressed state. As the measure of dead air space, the loft achieved atop the body is an indicator of a bag's insulation potential. Generally, the higher the loft, the greater the potential for insulation. The construction of a sleeping bag affects its

PolarGuard is the trademark for a synthetic fiber made by Fibre Industries, Inc., a subsidiary of Celanese Corporation. It is a continuous filament polyester fiber, insulation that is remarkably warm, resilient, and moisture resistant. A practical and less expensive alternative to goose down, PolarGuard is also washable, non-irritating, and long lasting.

insulator's ability to loft. Goose down achieves its greatest loft in bags using a slant or box baffle configuration, in which it need only expand to fill existing space. Sewn-through construction does not promote as high a loft, as the goose down must do the work of separating the shells. It is somewhat easier to maintain a consistent loft with synthetic insulators as they are inherently less compressible. CLASS-5's method of floating a thick layer of fibers between quilted layers is the most loft efficient construction in synthetic sleeping bags.

Shape: The overall shape of a sleeping bag is another important source of its insulation capacity. The smaller the amount of air space that you must heat in a bag, the greater its overall warmth. Hence, bags intended for use in cold climates have evolved into body contoured mummy shapes for the most efficient protection. Since the head is a critical heat loss area, the hood incorporated into this style of sleeping bag serves a vital insulation need. All CLASS-5 mummy bags have a generously filled hood with independent drawcord adjustment for a snug fit. Rectangular sleeping bags offer more room and generally don't have a hood. This makes them slightly less heat efficient and quite suitable for warmer conditions.

Differential Cut: To prevent the cold spots which can occur when the inner shell of a sleeping bag is forced against the outer one by an elbow or leg, cold weather bags are designed with a differential cut. This is the difference in circumference between the smaller inner shell and the larger outer one. In our sleeping bag specifications this difference is denoted in inches of differential cut.

Climate Control: Being able to adjust the temperature inside the sleeping bags

Zippers: CLASS-5 sleeping bags are equipped with rugged and dependable YKK nylon coil zippers. These zippers won't freeze or jam and will give you years of trouble-free service. Double sliders allow you to open the sleeping bag from either end for completely flexible ventilation.

an important source of comfort. The most convenient control of the bag's micro climate is the zipper. On warm nights it can be opened from either the foot or shoulder, or completely unzipped to provide full ventilation. When it gets cold, the closed zipper is backed along its entire length by an insulated draft tube which guards against heat loss. All CLASS-5 draft tubes are offset. They are sewn into the bag at two points along the entire length in order to cover the zipper at all times. Our cold weather bags are equipped with two draft tubes, one adjacent to each half of the zipper. Two independent drawcords for the hood and chest also aid in controlling the sleeping bag's interior temperature. When cinched they completely seal the head and shoulder area from unwanted drafts.

Zippers: CLASS-5 sleeping bags come with a choice of either a left or right hand zipper, making it possible to zip two bags together. The #7 and #10 YKK nylon coil zippers used in our sleeping bag line are rugged and reliable performers that will provide years of trouble-free use. Individual sleeping bag specifications will reflect their zipper compatibility with our other bags.

Temperature Ratings: Due to the great variation in people's basal metabolic rate, the vital heat producing mechanism, it is impossible to assign absolute temperature limits for any bag. All references to temperature in our sleeping bag specifications are quite conservative and based on the U.S. Army test standards outlined below.

Insulation requirements based on U.S. Army tests

	Temperature (Fahrenheit)					
	40	20	0	-20	-40	-60
Sleeping	1' 5"	2' 0"	2' 5"	3' 0"	3' 5"	4' 0"
Light Work	8"	1' 0"	1' 3"	1' 6"	1' 9"	2' 1"
Heavy Work	20"	2' 7"	3' 5"	4' 0"	4' 8"	5' 2"

BIKER

The Biker is an ultra lightweight sleeping bag created to satisfy the special insulation requirements of backpackers and bicycle tourers alike. In situations where every ounce counts, the Biker's 17.5 oz. of goose down fill and sewn through construction will hardly tip the scales, weighing only 2 lbs., 2 oz. overall. That kind of weight is all the more impressive when the Biker's temperature rating of 35°F is taken into account. To achieve such efficiency we have given this sleeping bag an extremely slender mummy cut with 54 inches of girth at the elbow and 33 inches at the foot. This is sufficiently narrow to allow the use of the Biker as an inner bag. In such a capacity it will greatly enhance the cold weather capabilities of the Nickel Cigar or Cheroot, for instance. To keep the interior of the bag draft free we have backed the double slider, #7 nylon coil zipper with an offset draft tube. The hood and shoulder area can be adjusted with drawstrings to seal in warmth. No matter how you use your Biker, it is simply one of the most versatile and ultra-efficient down bags available.



Length 86"
Girth at Elbow 54"
Girth at Foot 33"
Temperature Rating 35°F
Total 4"
Average Fill Weight 17 1/2 oz.
Average Gross Weight 38 oz.
Zipper Compatible with Biker Cheroot, Nickel Cigar
\$99.00

CHEROOT

The Cheroot is a lightweight, compact, multi-purpose down filled bag. For those who don't mind its decidedly narrow shape it provides optimum heat efficiency at an incredibly low overall weight of only three pounds. The 25 oz. of goose down fill give the Cheroot a surprising seasonal flexibility. It should be quite comfortable for most spring through fall use in moderate climates, and temperatures down to 30°F. We have placed box baffles every 7 3/4 inches between the non-differential y cut shells. The hood and shoulder section have drawstring adjustments to aid in sealing off the bag's interior. The full length, two-way #7 nylon coil zipper has an offset draft tube to prevent heat escape and windy drafts. We make the Cheroot in one size that is big enough to accommodate persons up to six feet. Wherever weight and bulk are of the essence, the Cheroot is the perfect choice.



Length 86"
Girth at Elbow 54"
Girth at Foot 33"
Temperature Rating 30°F
Total 5"
Average Fill Weight 25 oz.
Average Gross Weight 48 oz.
Zipper Compatible with Cheroot Biker Nickel Cigar
\$128.00

NICKEL CIGAR

What's your bag? If it's spring through fall camping, trekking across the country, or your friends' floor, the Nickel Cigar is for you. An extremely versatile

bag with just the right amount of goose down fill to provide plenty of warmth on any occasion, the Cigar will be a welcome companion. Its heat-efficient mummy cut is so surprisingly roomy it's hard to think of a more comfortable way to spend a night under the stars. The non-differentially cut shells have box baffles every seven inches to control the movement of the down. A sturdy #7 nylon coil zipper can be zipped from either end to let you ventilate or insulate as the weather demands. An offset draft tube behind the zipper shields you from any unpleasant drafts. At only 3 lbs., 12 oz., this sleeping bag is light enough to go anywhere, and it is small enough to fit easily into any pack or overnight bag. Superb quality at a reasonable cost means you can't afford to leave this Cigar at home.

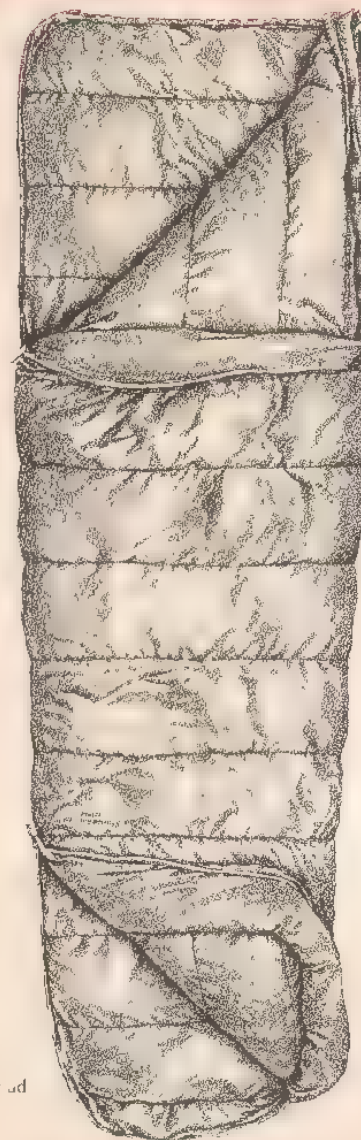


Length 87"
Girth at Elbow 66"
Girth at Foot 37"
Temperature Rating 10°F
Loft 7-1/2"
Average Fill Weight 32 oz.
Average Gross Weight 60 oz.
Zipper Compatible with Nickel Cigar, Biker, Enerco
\$161 (C)

OMNIMOOG

Built for those who simply cannot find comfort in a confining mummy bag, the Omnimog with

its 66 inch elbow girth and 50 inch foot girth, is a delightfully spacious alternative. A semi-rectangular sleeping bag that has the warmth of goose down fill, and the flexibility of an around-the-foot zipper. That's our Omni. Open up the #7 YKK nylon coil zipper and you have turned your Omni into a full size quilt. Join it with another Omni, and you have a luxurious double bag. The possibilities are endless. We have placed box baffles every seven inches in the non-differentially cut shells. That allows for an average loft of seven inches from the 35 ounces of goose down fill. We believe this will keep you fairly comfortable down to 15°F, and will enable you to use your Omni in a wide range of conditions. The Omnimog is 4 lbs., 3 oz., worth of versatility to challenge your imagination; and it keeps you quite warm to boot. Truly remarkable.



Length 86"
Girth at Elbow 66"
Girth at Foot 50"
Temperature Rating 15°F
Loft 7"
Average Fill Weight 35 oz.
Average Gross Weight 67 oz.
Zipper Compatible with Omnimog, Evening Cloud
\$171 (C)

CLASS-2 SLEEPER



ensible proportions and three season comfort, combined with a practical weight give this sleeping bag a wide range of uses. The Class-2 features a tough 2.2 oz. taffeta outer shell with a luxurious, cotton-soft trinityl lining. 10 inches of differential cut allow for eight inches of loft at an average fill of 34 oz. of goose down. A major technical refinement of all our "Class" bags is the chevron-style spacing of the slant wall baffles. This design's unparalleled efficiency in controlling lateral down migration assures a constant, even layer of insulation across the bag's entire surface. Our no-nonsense #10 YKK nylon coil zipper has double sliders and is a joy to use. Draft-free comfort is provided by two full length draft tubes attached next to each half of the zipper. The hood is large and seals snugly with an independent drawstring. The shoulder section has a similar arrangement with the addition of some velcro to close the top of the bag when the zipper is not in use. The Class-2 will be quite comfortable down to zero degrees Fahrenheit. Stuffed size is 8" x 18" and a storage bag is included.

Length: 85" (Reg.), 91" (Lg.)
Girth at Elbow: 58" (Reg.), 58" (Lg.)
Girth at Foot: 33" (Reg.), 33" (Lg.)
Temperature Rating: 0°F
Loft: 8"
Average Fill Weight: 34 oz. (Reg.), 36 oz. (Lg.)
Average Gross Weight: 66 oz. (Reg.), 70 oz. (Lg.)
Zipper Compatible with: Class-2, 4, 5, A1, A2, A3
\$173.00 (Reg.), \$178.00 (Lg.)



CLASS-4 SLEEPER



lass-4 is a bag for all seasons. The warmest companion you'll have all year round. The luxurious interior dimensions provide

plenty of room for storing or wearing bulky winter clothing. A durable 2.2 oz. taffeta outer shell is complemented by the natural warmth of our trinityl lining. The Class-4 is cut on a 12" differential, and the chevron baffle pattern is spaced six inches apart with a three inch internal offset. An average fill of 43 oz. of goose down develops 8 3/4" of loft and provides the extra margin of warmth you'd expect from a four season sleeping bag. The minimum temperature rating is -15°F. The full length, two way #10 nylon coil zipper and the large down filled hood offer the appropriate comfort flexibility. Leave them open for warm weather ventilation, or cinch the hood and shoulder drawstrings, and close the zipper with its two well stuffed draft tubes when the temperature drops. On the trail the Class-4 stuffs into a small 9" x 18" stuffsack. At home you can park it in its large storage bag which we provide.

Length: 85" (Reg.), 91" (Lg.)
Girth at Elbow: 62" (Reg.), 62" (Lg.)
Girth at Foot: 37" (Reg.), 37" (Lg.)
Temperature Rating: -15°F
Loft: 8 3/4"
Average Fill Weight: 42 oz. (Reg.), 44 oz. (Lg.)
Average Gross Weight: 82 oz. (Reg.), 85 oz. (Lg.)
Zipper Compatible with: Class-4, 2, 5, A1, A2, A3
\$204.00 (Reg.), \$210.00 (Lg.)



CLASS-5 SLEEPER



lass-5 is a single purpose bag. It will keep its user alive in extreme cold. A prodigious 10" of loft and a conservative minimum

temperature rating of -30F virtually assures this. As the definitive winter bag, the Class-5 should not be purchased as a piece of status equipment. The warmth it offers in the winter will quickly change to discomfort in more moderate conditions that do not require the enormous insulation potential of this bag. Its differential cut is 12 inches, and the chevron, slant-box baffles are spaced every six inches with a three inch offset for superb down control. The two, well-stuffed draft tubes not only follow the length of the #10 YKK double slider coil zipper, but continue over and under the shoulder section of the bag. When the hood and chest drawstrings are cinched up this down collar fills in around the neck to completely seal the comfortable, trinit interior of the bag. The stuffed size of this awesome sleeping bag is a surprisingly small 9"x21". We provide a large storage sack to keep your Class-5 happy between trips.

Length: 85" (Reg.), 91" (Lg.)
Girth at Elbow: 62" (Reg.), 62" (Lg.)
Girth at Foot: 37" (Reg.), 37" (Lg.)
Temperature Rating: -30°F
Loft: 10"
Average Fill Weight: 52 oz. (Reg.), 54 oz. (Lg.)
Average Gross Weight: 96 oz. (Reg.), 99 oz. (Lg.)
Zipper Compatible with: Class-5, 2, 4, A1, A2, A3
\$240.00 (Reg.), \$245.00 (Lg.)



ALTIMATE 1



he A-1 is the ideal expression of light-weight, comfort, and utility in a synthetic sleeping bag. Intended for moderate conditions, this bag will be as comfortable on a summer hike as on a springtime beach excursion. The extremely resilient single layers of 8 oz. Holoofil II on the top and bottom achieve an impressive 5 inches of loft to give the bag a minimum temperature rating of 30F. Combined with the overall low weight of 4 lbs., 5 oz. these values give the A-1 a wide range of uses. A sturdy, full length #10 YKK nylon coil zipper has double sliders to allow for just the right adjustments in ventilating the foot or top section. And, for those times when things get cold and windy, an ample draft tube backs up the zipper along its entire length. Two independent drawstrings will snug up the bag around the shoulders and the hood around the head to seal in warmth. The roomy shoulder girth of 64 inches will make it comfortable to slide into the luxurious, cotton-like trinit lining. The outside fabric is our dependable 2.2 oz. taffeta.

Length: 84" (Reg.), 90" (Lg.)
Girth at Elbow: 64" (Reg.), 64" (Lg.)
Girth at Foot: 34" (Reg.), 34" (Lg.)
Temperature Rating: 30°F
Loft: 5"
Average Fill Weight: 38 oz. (Reg.), 41 oz. (Lg.)
Average Gross Weight: 66 oz. (Reg.), 71 oz. (Lg.)
Zipper Compatible with: A1, A2, A3, Class-2, 4, 5
\$81.00 (Reg.), \$86.00 (Lg.)



ALTIMATE 2

The A-2 is perhaps the finest all-round sleeping bag for those needing the advantages of synthetic fill, sub-freezing temperature capabilities, and a relatively low overall weight. The top of the bag uses CLASS-5's exclusive IsoTherm sandwich consisting of one layer of 8 oz. weight Hollofil II, and one layer of 8 oz. weight PolarGuard. By combining the resilience of Hollofil II with the stability of PolarGuard we are able to place a larger proportion of the 7 inches of overall loft on top of the body, where it counts. The bottom of the bag has a double layer of Hollofil II, to give added ground insulation. The heat efficient contoured mummy shape still offers an ample shoulder girth of 64 inches, and a footsection that is roomy enough for all kinds of things, including the feet. The double slider #10 YKK nylon coil zipper, backed by a full length draft tube, provides easy access to the beautiful, cotton-soft trinit interior. The hood and shoulder section can be sealed individually by two different drawstrings.



Length: 84" (Reg.), 90" (Lg.)
Girth at Elbow: 64" (Reg.), 64" (Lg.)
Girth at Foot: 34" (Reg.), 34" (Lg.)
Temperature Rating: 15°F
Loft: 7"
Average Fill Weight: 48 oz. (Reg.), 52 oz. (Lg.)
Average Gross Weight: 75 oz. (Reg.), 81 oz. (Lg.)
Zipper Compatible with: A2, A1, A3, Class-2, 4, 5
\$93.00 (Reg.), \$95.00 (Lg.)

ALTIMATE 3

Four season warmth and maximum comfort best describe the A-3. It is a truly versatile synthetic sleeping bag, designed to stand up to anything short of the most extreme conditions. Its impressive 8 inches of loft afford ample protection for prolonged sub-freezing use, even under moist conditions. CLASS-5's "revolutionary" insulation concept finds its ultimate expression in this bag with the use of a beefy IsoTherm sandwich on top—two layers of Hollofil II around an 8 oz. weight PolarGuard core—as well as one on the bottom—two layers of 8 oz. weight Hollofil II with a 5.3 oz. weight slice of PolarGuard in between. As on all our bags, the #10 YKK double slider, nylon coil zipper is backed by a full length, healthy draft tube to keep out the wind. The hood and shoulder section can be controlled through individual drawcords. The 2.2 oz. high count taffeta outer fabric is combined with a contrasting lining of warm and soft trinit. Even with all these features the A-3 weighs in at an astonishingly light 5 lbs., 2 oz. for the regular.



Length: 84" (Reg.), 90" (Lg.)
Girth at Elbow: 64" (Reg.), 64" (Lg.)
Girth at Foot: 34" (Reg.), 34" (Lg.)
Temperature Rating: 0°F
Loft: 8"
Average Fill Weight: 58 oz. (Reg.), 64 oz. (Lg.)
Average Gross Weight: 82 oz. (Reg.), 90 oz. (Lg.)
Zipper Compatible with: A3, A1, A2, Class-2, 4, 5
\$104.00 (Reg.), \$105.00 (Lg.)

EVENING CLOUD



his nearly rectangular sleeping bag is our answer to the confining mummy shape. No longer must those who

prefer a little extra room spend long nights squeezed into small cocoons of nylon. Now you can wrap yourself in the comfort of an Evening Cloud. Slip into its soft tranyl liner and stretch out, or pull up your knees, or use the Cloud as a quilt. The 103 inch two-way, #7 nylon coil zipper extends all the way around the roomy, fully formed foot section—when completely opened it transforms your Cloud into a luxurious comforter. Naturally, there is a well stuffed draft tube behind the zipper to keep the wind out when the bag is closed. There is also a drawstring at the collar to seal the shoulders. The rugged 2.2 oz. taffeta shell, and the resilient double layers of Hollofil II insulation make the Evening Cloud a true wash & wear, and throw-it-anywhere bag. A very practical sleeping arrangement for camping, boating, and moderate hiking trips. Try sleeping on a Cloud tonight; it may improve your dreams.

Length: 85"
Cirth at Elbow: 65"
Cirth at Foot: 49"
Temperature Rating: 35°F
Loft: 6"
Average Fill Weight: 52 oz.
Average Gross Weight: 95 oz.
Zipper Compatible with: Evening Cloud, Onnimog
\$103.00

